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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,401	01/04/2006	Christy L. Ludlow	11613.87USWO	6746
7590 12/04/2008 Katherine M. Kowalchyk MERCHANT & GOULD P.C.			EXAMINER	
			GETZOW, SCOTT M	
P.O. Box 2903 Minneapolis, M	N 55402-0903		ART UNIT	PAPER NUMBER
•			3762	
			MAIL DATE	DELIVERY MODE
			12/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/529,401	LUDLOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Scott M. Getzow	3762				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 18 Se	eptember 2008.					
	action is non-final.					
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-10,13-35 and 44-47</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-10 and 13-20</u> is/are allowed.						
6)⊠ Claim(s) <u>21-35 and 44-47</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>11/21/08,9/18/08</u> .	6) Other:	a.c, ppiloanoi!				

Application/Control Number: 10/529,401 Page 2

Art Unit: 3762

Claim Rejections - 35 USC § 103

1. Claims 21-35,44-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freed et al (5,891,185) in view of Sanders (5,897,579).

In addition to the comments made in the previous office action, Freed teaches a device which can send stimulating signals to each of a plurality of electrodes, see column 6. Freed also teaches that simultaneous or sequential stimulation can be provided, col. 7:10+, and that a weak muscle contraction signal evidencing the patient's attempt to swallow can be generated, col. 7;30+, and sensors which can be used to allow for feedback control of the stimulation, col. 7:24. As mentioned previously, the electrodes of Freed are external electrodes. Sanders teaches the use of implanted electrodes, as well as a implanted stimulator. To use implanted electrodes with the device of Freed would have been obvious since such would be the combination of known prior art elements yielding a predictable result. Clearly, the Freed device is used to stimulate the muscles and other structures under the skin of the patient. To use implanted electrodes to so stimulate the underlying tissue would not ruin the operability of the Freed device. Further, the signals produced could be complex, since that term is very broad and the signals produced by Freed can overlap one another when stimulating different muscles. Also, the term 'switch' is also very broad. Both Freed and Sanders show elements that can be used to control the pulse generator, see for example Freed, column 4:45+. Still further, column 4 of Freed teaches that various frequencies can be used for the stimulation, such as between 4 and 80 Hz.

Application/Control Number: 10/529,401 Page 3

Art Unit: 3762

Allowable Subject Matter

2. Claims 1-10,13-20 are allowed.

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Applicant's remarks have been considered, however the above rejections are still deemed to be proper. It is the examiner's position that the all of the *structure* of the above apparatus claims are encompassed by the combination of Freed and Sanders. Applicant's apparatus claims set forth *intended uses* that *could* be performed by the structure of Freed and Sanders, if desired. In fact, many of the apparatus claims could 'read on' a wide variety of implantable stimulators, such as spinal cord stimulators, neural stimulators, etc.

Application/Control Number: 10/529,401 Page 4

Art Unit: 3762

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott M. Getzow whose telephone number is (571) 272-4946. The examiner can normally be reached on M-F, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (571) 272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott M. Getzow/ Primary Examiner, Art Unit 3762